

What is claimed is:

1. A keystroke structure for an electronic device, wherein the electronic device has an outer shell in which an opening is arranged, the keystroke
5 structure comprising:

a cap adapted to be arranged in the opening of the outer shell and have at least one part exposing from the opening to the outside of the outer shell;

10 a flange fixed to the cap and surrounding a bottom of the cap, the flange being adapted to engage with the shell when the cap is tilted, the flange being more resilient than the cap;

a rod extending downwardly from the bottom of the cap;

a printed circuit board; and

15 a switch assembly mounted on the printed circuit board, the switch assembly having switches for cursor direction control and a switch for “enter” control, the switch for cursor direction control being activated when the cap is tilted and the switch for “enter” control being activated when the cap is vertically depressed.

20 2. The keystroke structure according to claim 1, wherein the switch assembly has four switches for cursor direction control.

3. The keystroke structure according to claim 1, wherein the flange has an upward extending extension covering a whole periphery of the cap.

4. The keystroke structure according to claim 1, wherein the cap is made of hard plastics and the flange is made of resilient plastics.

25 5. The keystroke structure according to claim 4, wherein the cap is made of ABS resin and the flange is made of rubber.

6. An electronic device comprising:

an outer shell in which an opening is defined; a keystroke structure arranged below the opening of the outer shell, comprising:

a cap having a portion extending upward through the opening;

a flange fixed to the cap and being more elastic than the cap;

a rod extending downwardly from the cap; and

5 a switch assembly having a first switch for a first function control and a second switch for a second function control, the first switch being activated by the rod when the cap is tilted to an extent that the flange engages with a bottom face of the shell and the second switch being activated by the rod when the cap is vertically depressed.

10 7. The electronic device according to claim 6, wherein the flange is arranged around a bottom of the cap.

8. The electronic device according to claim 7, wherein the flange has an upper extension covering a whole periphery of the cap.

9. The electronic device according to claim 6, wherein the electronic device is a personal digital assistant (PDA).

15 10. The electronic device according to claim 6, wherein the first switch is activated by a periphery of the rod and the second switch is activated by a bottom of the rod.

11. The electronic device according to claim 6, wherein the cap is made of hard plastics such as ABS resin and the flange is made of rubber.

20 12. A keystroke structure for a handheld electronic device in which the keystroke structure can control two different types of function of the handheld electronic device, the keystroke structure comprising:

a cap made of first material, adapted for receiving an operating force from a user of the handheld electronic device; and

25 a flange adapted for engaging with a shell of the handheld electronic device to prevent a separation of the keystroke structure from the handheld electronic device, the flange being fixedly secured to a periphery of the cap and made of a second material more resilient than the first material for forming the cap.

30 13. The keystroke structure according to claim 12, wherein the

keystroke structure controls a first type of function of the handheld electronic device when the cap is titled and a second type of function of the handheld electronic device when the cap is vertically depressed.

5 14. The keystroke structure according to claim 13, wherein when the cap is titled, the flange engages with the shell and is deformed.

15. The keystroke structure according to claim 14, wherein the first material is hard plastics and the second material is rubber.

16. The keystroke structure according to claim 15, wherein the hard plastics is ABS resin.

10 17. The keystroke structure according to claim 12, wherein the first material is hard plastics and the second material is rubber.

18. The keystroke structure according to claim 17, wherein the hard plastics is ABS resin.